PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY To: **PCT** Alban Tay Nahtani & De Silva WRITTEN OPINION OF THE INTERNATIONAL 39 Robinson road PRELIMINARY EXAMINING AUTHORITY #07-01 Robinson-Point-(PCT Rule 66) 068911 Singapore Date of mailing 2 6 JUL 2005 (day/month/year) within TWO MONTHS Applicant's or agent's file reference REPLY DUE from the above date of mailing MERL/20401577/SJ/JW/jt Priority date (day/month/year) International filing date (day/month/year) International application No. 7 November 2003 PCT/SG2004/000319 30 September 2004 International Patent Classification (IPC) or both national classification and IPC Int. Cl. 7 A61M 29/00, A61 2/06, A61B 17/12 Applicant MERLIN MD PTE LTD (et al.) The written opinion established by the International Searching Authority: X considered to be a written opinion of the International Preliminary Examining Authority. (second, etc.) opinion contains indications relating to the following items: This Box No. I Basis of the opinion Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations Box No. V and explanations supporting such statement Certain documents cited Box No. VI Certain defects in the international application Box No. VII Box No. VIII Certain observations on the international application The applicant is hereby invited to reply to this opinion. See the Reply Due date indicated above. However, the Australian Patent Office will not establish the Report before the earlier of (i) a response being filed, or (ii) one month before the Final Date by which the international preliminary examination report must be established. The Report will take into account any response (including amendments) filed before the Report is established. If no response is filed by 1 month before the Final Date, the international preliminary examination report will be established on the basis of this opinion. Applicants wishing to have the benefit of a further opinion (if needed) before the report is established should ensure that a response is filed at least 3 months before the Final Date by which the international preliminary examination report must be By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. How? For the form and the language of the amendments, see Rules 66.8 and 66.9. For an additional opportunity to submit amendments, see Rule 66.4. Also For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis. For an informal communication with the examiner, see Rule 66.6. The FINAL DATE by which the international preliminary report on patentability (Chapter II of the PCT) must be established according to Rule 69.2 is: 7 March 2006 Authorized Officer Name and mailing address of the IPEA/AU **AUSTRALIAN PATENT OFFICE** MATTHEW FORWA PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Telephone No. (02) 6283 2606 Facsimile No. (02) 6285 3929

WRITTEN OPINION OF THE

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

International application No.

PCT/SG2004/000319

Bo	x No. I		the opinion						
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.								
	Th	This opinion is based on a translation from the original language into the following language							
	wh	which is the language of a translation furnished for the purposes of:							
	international search (under Rules 12.3 and 23.1 (b))								
	publication of the international application (under Rule 12.4)								
	international preliminary examination (under Rules 55.2 and/or 55.3)								
2.	sheets w	With regard to the elements of the international application, this opinion has been established on the basis of (replacement heets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed."):							
	the	international	application as originally filed/furnished						
	X the	description:	pages 1-18, as originally filed/furnished						
			pages, received by this Authority on with the letter of						
	•		pages, received by this Authority on with the letter of						
	X the	claims:	pages , as originally filed/furnished						
			pages, as amended (together with any statement) under Article 19,						
			pages 19-22, received by this Authority on 14 June 2005 with the letter of 6 June 2005						
			pages, received by this Authority on with the letter of						
	X the	drawings:	pages 1/4-4/4, as originally filed/furnished						
			pages , received by this Authority on with the letter of						
			pages, received by this Authority on with the letter of						
	a se	quence listin	g and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.						
3.	The	amendments	have resulted in the cancellation of:						
1	· [the desc	ription, pages						
	· ř	the clair	ns, Nos.						
	Ī	the drav	vings, sheets/figs						
	the sequence listing (specify):								
	. ,	any tabl	e(s) related to the sequence listing (specify):						
4.	This opinion has been established as if (some of) the amendments had not been made, since they have been considere go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).								
	Γ	the desc	ription, pages						
	Ī	the clair	ns, Nos.						
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	Ť	the sequ	ence listing (specify):						
	Ţ	any table	e(s) related to the sequence listing (specify):						
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WRITTEN OPINION OF THE

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

International application No.

PCT/SG2004/000319

Box No. V	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-14, 17, 18, 20-27	YES
	Claims	15, 16, 19	. NO
Inventive step (IS)	Claims	1-14, 17, 18	YES
	Claims	15, 16, 19-27	NO
Industrial applicability (IA)	Claims	1-27	YES
	Claims		NO

Citations and explanations:

The following documents identified in the International Search Report have been considered for the purposes of this report:

- D1 US 2003/0093111 A1
- D2 WO 1998014137 A1
- D3 EP 0947204 A2
- D4 US 6024765 A
- D5 EP 754435 A1
- D6 EP 1391184 A1

The present amended claims 1-14 define a stent for insertion into a bodily vessel for treatment of an aneurysm or ischemic diseases, wherein the stent is made from a platinum alloy selected from the group consisting of of platinum:iridium alloy, platinum;tungsten alloy, platinum:rhodium:ruthenium alloy, platinum:rhodium alloy and platinum;nickel alloy; and wherein the platinum;iridium alloy has a composition of about 70-80% of platinum and 20-30% iridium; wherein the platinum:tungsten alloy has a composition of about 85-95% of platinum and 5-15% of tungsten; wherein the platinum:rhodium:ruthenium alloy has a composition of about 70-85% of platinum, 1—20% of rhodium and 3-10% of ruthenium; wherein the platinum:rhodium alloy has a composition of about 60-80% of platinum and 20-40% of rhodium; and wherein the platinum:nickel alloy has a composition of about 80-90% of platinum and 10-20% of nickel.

NOVELTY AND INVENTIVE STEP: Claims 1-27

D1 discloses a vaso-occlusive device of metallic wire and methods of this device to treat patients by implanting such devices at the site of abnormal blood flow; the metallic wire can comprise a metal selected from the group consisting of platinum, tungsten, rhenium, rhodium, ruthenium, nickel and alloys thereof. Claims 15,16, 19-27 do not involve inventive step in view of this documents as all their technical features are common general knowledge of the art.

D2 discloses a radially expandable stent which is formed of fine wire (10), the wire comprises an alloy selected from the group consisting of PT-Ir with 90 wt % Pt and 10 wt % Ir. Claims 1-27 are new and involve inventive step in view of this document.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V

D3 discloses an endoprosthesis. In preferred embodiment the body structure includes an elongated central cylindrical core and an elongated outer tubular member disposed around the core. One of the first and second materials comprises the core and the other comprises the tubular member. The first material is preferably selected from the group consisting of platinum, iridium, tungsten alloys thereof and any combination thereof. Claims 15,16, 19 are not new and do not involve inventive step in view of this document. Claims 20 - 27 do not involve inventive step in view of this document as all their technical features are common general knowledge of the art.

D4 discloses an implantable vaso-occlusive coil which is implanted using minimally invasive surgical techniques. The material used in constructing a vaso-occlusive member may be any of a wide variety of materials: alloys of metals of Platinum Group, especially platinum, rhodium. Claims 15,16, 19 are not new and do not involve inventive step in view of this document. Claims 20 - 27 do not involve inventive step in view of this document as all their technical features common general knowledge of the art.

D5 discloses a vaso-occlusive device with helically wound coil made of Pt, Rh, W or their alloys. Claims 1-27 are new and involve inventive step in view of this document.

D6 discloses an expandable multi-layer tubular structure useful as a surgical stent which has two or more layers. The different layers can be made from Pt-Ir alloy. Claims 1-27 are new and involve inventive step in view of this document.